Order placed with the industry. Tekh.mol. 28 no.6:28-29 160. (MIRA 13:7) 1. Ghlen kinofotosektsii Doma uchenykh Ob*yedinennogo instituta yadernykh iseledovaniy, g.Dubua. (Motion-picture photography-Equipment and supplies)

LEBEDETKO, M.M.

12th International Conference on High Energy Physics in Dubna.

Vest. AN SSSR 34 no.12:33-40 D *64 (MIRA 18:1)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010007-3"

```
GATSENKO, Ye.G.; LEBKDENKO, N.K.

Result of the treatment of chronic prostatitis by Vishnevskii's perisacral novocatne block, Vest.derm. i ven. 31 no.3:45-46 Ny-Je '57. (MIRA 10:11) (PROCAINE, therapeutic use, prostatitis, perisacral nerve block (Rus)) (ANSSTRESIA, REGIONAL, therapeutic use, procaine perisacral block in prostatitis (Rus)) (PROSTATIVIS, therapy, proceime perisacral block (Rus))
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LEBEDENKO, Petr Pavlovich, polkovník v otstavke; ARISTOV, V.I., red.

[At the bend of the Don] V izluchine Dona. Moskva, Voenizdat,
1965. 171 p.

(MIRA 18:4)

TIMOFEYEVA, L.V.; LEBEDENKO, T.D.

Preliminary data on expected lealth and epidemic conditions in the area around Krasnoyarsk Reservoir. Med.paraz. i paraz. bol. 27 no.1: 27-29 Ja-F 158. (MIRA 11:4)

1. Iz sektora bor'by a parazitarnymi zabolevaniyami pri stroitel'stve gidrotekhnicheskikh i meliorativnykh sooruzheniy Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (dir. instituta - prof. P.G. Sergiyev, zav. sektorom - prof. V.N. Beklemishev) i iz Krasnoyarskoy krayevoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach S.I. Nozik)

(WATTR SUPPLY,

sanitary epidemiol. cond. around water reservoir (Rus))

TIMOFEYEVA, L. V.; GRASIS, V. K.; MERINOV, V. A.; LEBEDENKO, T. D.; RERBERG, M. S.

Method of survey with reference to tick encephalitis and gnats in the exploration of new territories. Med. paraz. i paraz. bol. no.6:710-715 '61. (MIRA 15:6)

1. Iz Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye. I. Martsinovskogo Ministerstva zdravookhraneniya SSSR (dir. - prof. P. G. Sergiyev) i Krasnoyarskoy krayevoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach S. I. Nozik)

(ENCEPHALITIS) (DIPTERA)

- LEBEDENKO, V.A., irzh.

Modern technological processes in the electrical equipment industry. Vest. elektroprom. 33 no.8:1-4 Ag *62. (MIRA 15:7) (Electric equipment industry)

BOBRO, Yu.G., kand.tekhm.nauk; LYUBCHENKO, A.P., kand.tekhn.nauk;

LEBEDENKO, V.V., kand.tekhn.nauk

Effect of heat treatment on the alpha-phase substructure of cast iron. Metalloved. i term. obr. met. no.5:43-45 My '61.

(MIRA 14:5)

1. Khar'kovskiy politekhnicheskiy institut.
(Cast iron—Metallography)
(Metals, Effect of temperature on)

AVTSINA-CHERNOMORDIK, A.S.; GULIAYEVA, N.I.; LEBEMENKO, Z.F.

Symmetric testh extraction in the treatment of certain forms of malocclusion. Stomatologia no.1:55-58 Ja-F'55. (MLRA 8:5)

1. Iz kafedry ortopedicheskoy stomatologia (zav. prof. V.Yu. Kurlyandskiy) Moskovskogo meditsinskogo stomatologiacheskogo instituta (dir. dotsent G.N.Beletskiy).

(MALOCCLUSION, therapy, testh extraction, symmetric)

(TESTH EXTRACTION, in various diseases, malocclusion, symmetric extraction)

IEBEDENKO, Z.F.

Orthodontic repair of malocclusion caused by parodontitis. Stomatologiia 35 no.4:51-55 J1-Ag 56. (MIRA 10:4)

1. Iz kafedry ortopedicheskoy stomatologii (zav.-prof.V.Yu.
Kurlyandskiy) Moskovskogo meditsinskogo stomatologicheskogo instituta
(dir.-dotsent A.N. Beletskiy)
(GUMS--DISEASES) (TEETH--ABNORMITIES AND DEFORMITIES)

LEBEDENKO, Z.F.

Charges in sensitivity to cold of the girgival mucosa following orthodontic treatment of parodontitis. Stomatologiia 36 no.4: 66-69 Jl-Ag '57.

1. Is kafedry ortopedicheskoy stomatologii (zav. - prof. V.Yu Kurlyandskiy) Moskovskogo meditainskogo stomatologicheskogo instituta (dir. - dotsent O.N.Beletskiy)

(GUMS--IMMERVATION)

Lighternic, Z.F., C and led Sci--(disc) "Crinop lie treat and cold the relation of the maceuralising of the gas to cold for an hadon's dis."

lo., 1950. 11 pp (lim of doubt, ASPSE. lee led Disc teleprocal lact),

200 copies (LL,25-50, 119)

LEBEDENKO, Z.F.

Reaction of the gingival mucosa in the orthodontic displacement of upper teeth. Stomatologiia 40 no.4:72 Jl-Ag '61. (MINA 14:11)

1. Is kafedry ortopedicheskoy stomatologii (zav. - prof. V.Yu. Kurlyandskiy) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy).

(ORTHODONTIA)

AUTHOR:

Lebedenko-Yudkin, M.M. (Moscow)

sov/26-58-1-30/36

TITLE:

Modern Aquarium Technics (Sovremennaya akvarial'naya tekhnika)

PERTODICAL:

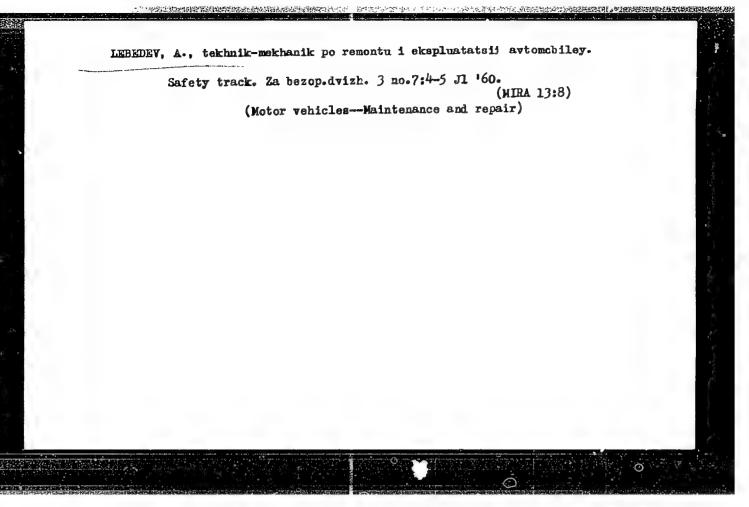
Priroda. 1958, Nr 1, pp 117-118 (USSR)

ABSTRACT:

The author is concerned with modern aquarium equipment, useful in keeping tropical fish and in facilitating spawning conditions. He describes devices that heat and aerate the aquarium, and other gadgets that are offered for sale and

enjoy a large distribution in the US. There are 5 photos and 2 diagrams.

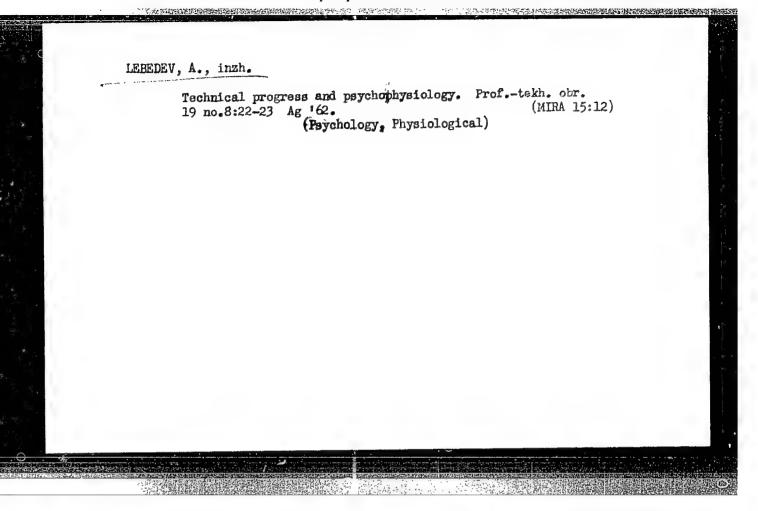
Card 1/1

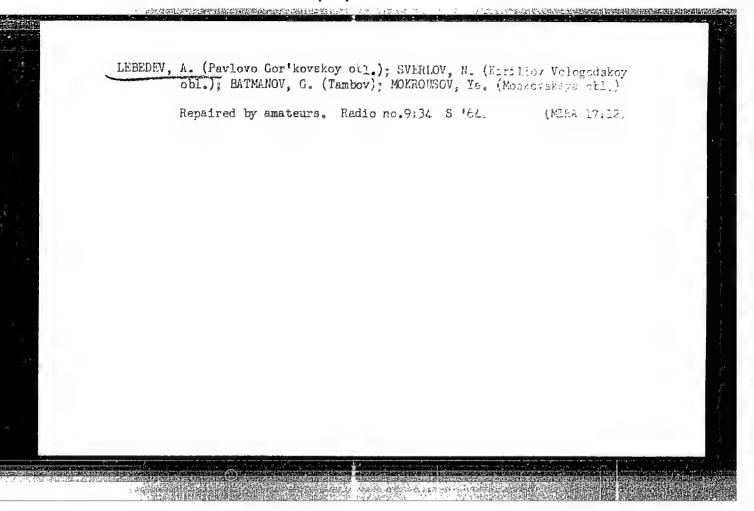


LEBEDEV, A., polkovnik

Ideological and political training of military personnel. Komm. Vooruzh. Sil 46 no.5:41-47 Mr '65. (MIRA 18:4)

1. Nachal'nik otdela propagandy i agitatsii politicheskogo upravleniya Moskovskogo voyennogo okruga.

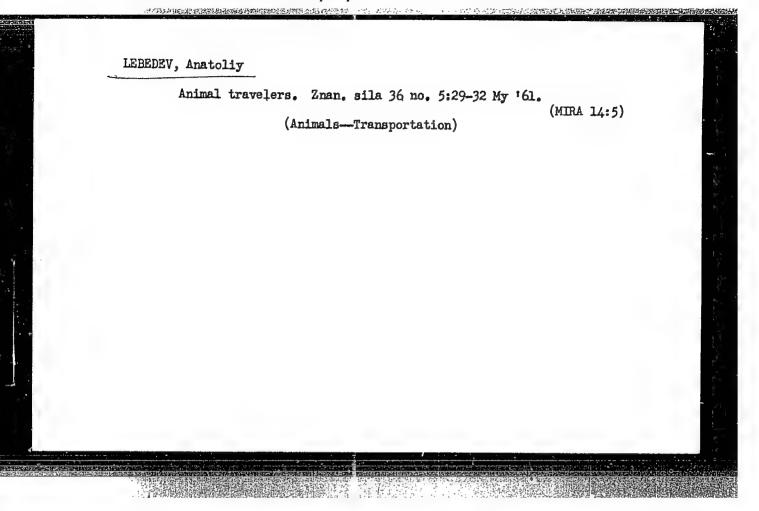


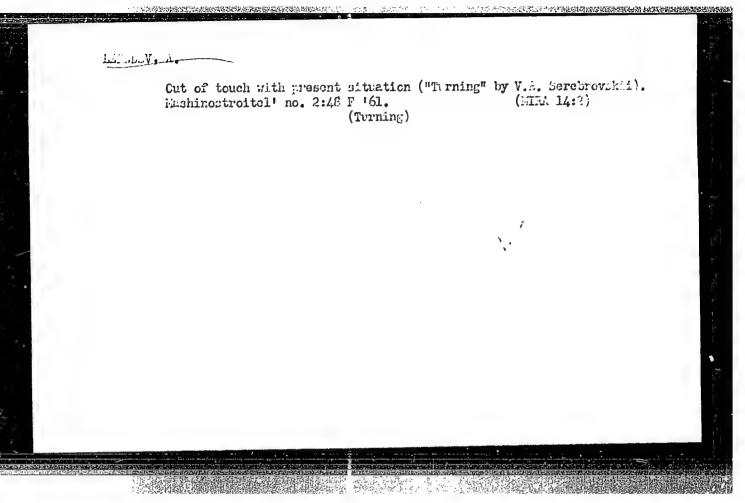


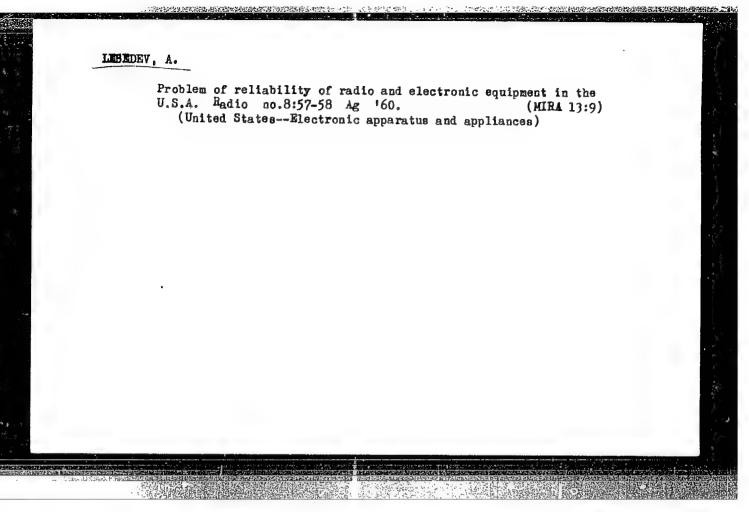
Interests should coincide. Standartizatsiia 29 no.6:42-43
Je '65.

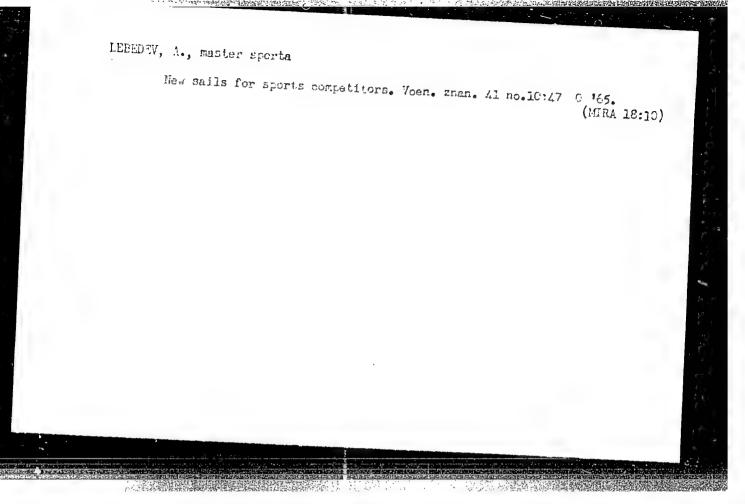
(MIRA 18:12)

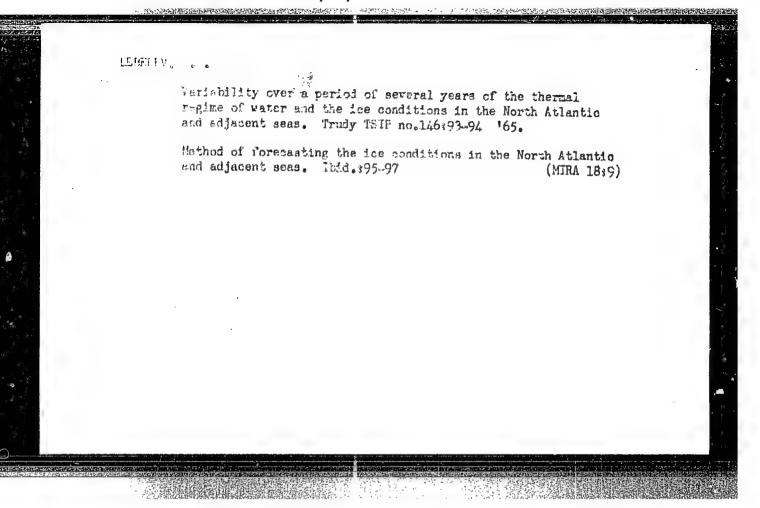
1. Chlen obshchestvennogo komiteta po nadezhnosti i kontrolyu kachestva pri Vsesoyuznom sovete nauchno-tekhnicheskikh

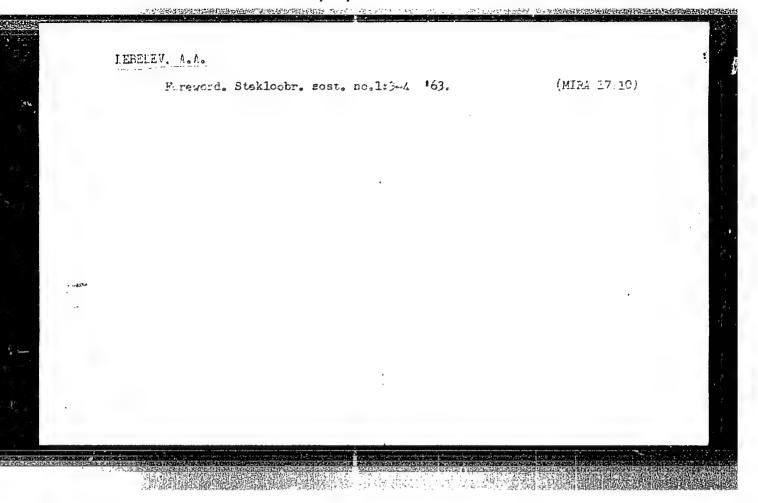












41359

15.8360

B/081/62/000/017/093/102 B177/B186

AUTHOR:

Lebedev, A. A.

TITLE:

An investigation of plastic bearings with a rotating

friction couple

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 545, abstrac 17P87 (In collection: Plastmassy v mashinostr. i

priborostr., Kiyev, Gostekhizdat USSR, 1961, 335-340)

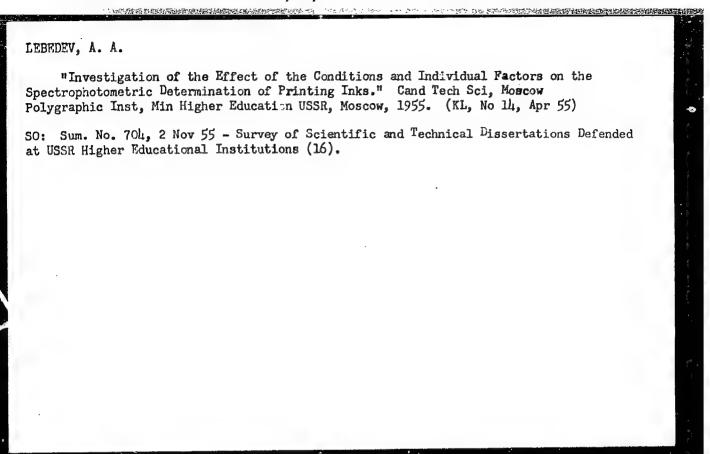
TEXT: The author demonstrates the possibility and advantages (improved heat response and increased load-bearing capacity) of using the laminated wood plastic ACN-B (DSP-V) (with transverse veneer) as a substitute for non-ferrous metals in bearings subject to a rotating friction couple, in which the shaft and not the bearing shell is coated with plastic. It was found from the experiments, that the performance of a laminated wood plastic bearing with a rotating friction couple, lubricated with mineral lubricants of the machine-oil type, is quite stable and gives the minimum coefficient of friction at sliding speeds of 0.7 - 2.8 m/sec when under specific pressures of 25 - 30 kg/cm². The best angle at which

Card 1/2

S/081/62/000/017/093/102

An investigation of plastic bearings ... B177/B186

to feed the lubricant in order to reduce the coefficient of friction and the temperature in the most strongly heated zone is 180 - 210°. On reducing the relative clearance from 0.03 to 0.012 with oil lubrication, the temperature and the coefficient of friction are reduced. With water lubrication, the size of the clearance was found to have no effect on the temperature and coefficient of friction. [Abstracter's note: Complete translation.]

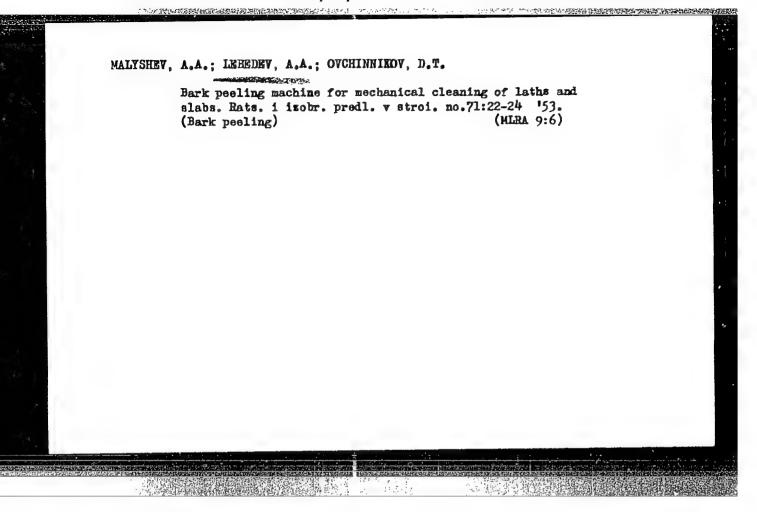


LEBEDEV, A. A. Gand Agr Soi -- (diss) "Effectiveness of various types of fattening the large white breed of Sheksna-see hogs." Tutayev, 1959. 13 pp (All-Union Sci Res Inst of Animal Husbandry), 150 copies (KL, 46-59, 139)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010007-3"

Instrument for the measurement of acceleration, Fiz. v shkole 19 no.1:106 Ja-F '59. 1. Pedagogicheskiy institut, g. Yaroslavl'. (Notion-Measurement)

1	USSR/Biology	Apr 49	
	Ants Symbiosis	•	
	"An Original Symbiosis," A.	A. Lebedev, ½ p	
	"Priroda" No 4		
	Describes his work on symbiosis in regard to birch		
	and spruce trees as affected by ants. Describes recent confirmation of earlier discoveries that		
	anthills play a fairly important part in the growth of forests. Underground passages interweaving with roots of trees are believed to have a bene-		
	ficial effect in aeration wi		
	in thick forests.	5 7/49T 3	
·			



VORONIN, Ivan Vasil'yevich; VOSKRESKNSKIY, Dmitriy Alekseyevich; KOZLOV, Nikolay Andreyevich; LEBEDEV, Arseniy Andreyevich; PEREPECHIN, Boris Mikhaylovich; SUDACHKOV, Yevgeniy Yakovlevich, kand.ekon. nauk; CHULITSKIY, Lev Dmitriyevich; KARASIKOV, S.A., prepodavatel', retsenzent; MOTOVILOV, G.P., doktor sel'skokhoz.nauk, red.; SHAKHOVA, L.I., red.izd-va; FUKS, Ye.A., red.izd-va; BACHURINA, A.M., tekhn.red.

[Forestry economics; organization and production planning] Ekonomika lesnogo khoziaistva; organizatsiia i planirovania proizvodstva. Moskva, Goslesbumizdat, 1958. 292 p. (MIRA 12:3)

1. Khrenovskiy tekhnikum lesnogo khozyaystva (for Karasikov). (Forests and forestry--Economic aspects)

USSR/Meadow Cultivation.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 39120.

Author Lebedev, A.A.

: Kalinin State red. Institute. Inst

: The Meadows of the Kalinin Rayon and of the Downstream Title

Part of the River T'ma.

Orig Pub: Uch. zap. Kalininsk. gos. ped. in-t, 1956, 20,

75-103.

Abstract: A geobotanical-economic description of meadow-

pastural area of the surveyed region, which contains absolute dry gaps, damp meadows in forest clearings, damp and lowland meadows, also meadow lowland swamps ard water neadows, is given in this study. All these types of meadows do not produce, either quali-

tatively or quantitatively, sufficient crops of

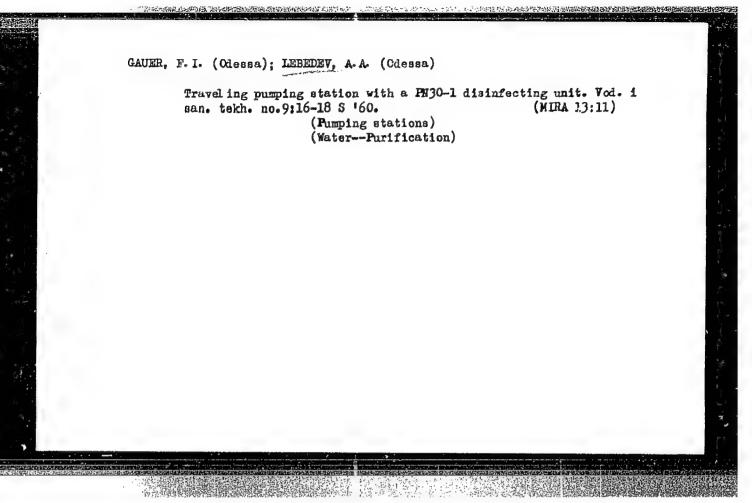
: 1/2 Card

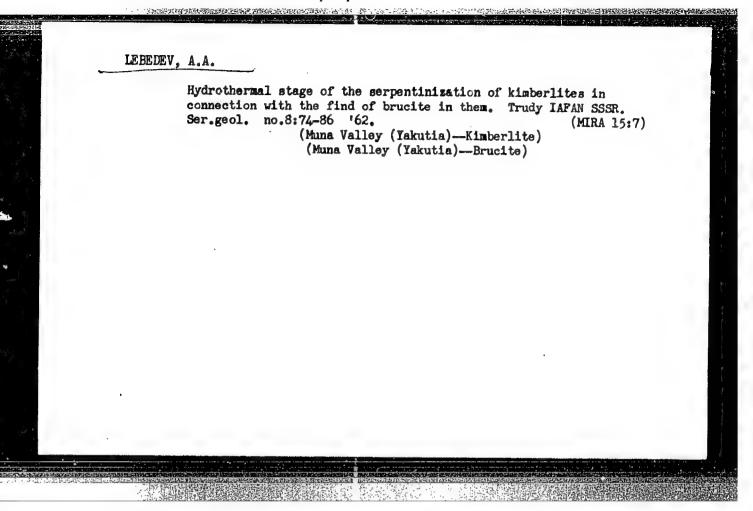
LEBEDEV, A.A.

Forage plants from the flora of the upper Volga Valley. Trudy Bot.inst.Ser.6 no.7:210-211 '59. (MIRA 13:4)

1. Kalininskiy gosudarstvennyy pedagogicheskiy institut im.M.I. Kalinina.

(Volga Valley -- Forage plants)





S/137/61/000/012/076/149 A006/A101

AUTHORS:

Privalov, I.I., Nagovitsyn, D.F., Lebedev, A.A., Rakevich, K.A.,

Kondrat'yev, S.N.

TITLE:

The effect of the weight and reduction of an ingot or the number

of macro-inclusions

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 3-4, abstract

12D21 ("Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chern.

metallov", 1960, no. 8, 22 - 32)

TEXT: Non-metallic inclusions in steel are composed of sulfides and oxysilicates (aluminum oxides Al₂O₃ and silicates SiO₂) which occur in the steel as macro-inclusions and impair its quality. Macro-inclusions are distributed over the height basically in a gradually decreasing amount from the bottom to the top section, where the number of macro-inclusions increases again. The depth of occurrence of the macro-inclusions in a 2.5 ton ingot is on the average 4.75-95.75 mm from the lateral surface, and 15.5 - 21.3 mm in a 3.5 ton ingot; it is 2 - 5.25 mm in blooms of 440 mm size, obtained from a 6.7 ton ingot. The displacement of inclusions for different cases of rolling is discussed. Thus, when

Card 1/2

The effect of the weight and reduction ...

S/137/61/000/012/076/149 A006/A101

rolling the ingots on a blooming mill, the macro-inclusions are shifted towards the bloom surface. During the rolling of pipes, sheets and other articles directly from the ingot, macro-inclusions are shifted from the peripheral layers to those adjoining the butt surface. When rolling wheels directly from a 3.5 ton ingot, the macro-inclusions do not reach the peripheral layers during the shift. Tables and diagrams are given showing the occurrence depth of macro-inclusions in ingots of different weight.

I. Getiya

[Abstracter's note: Complete translation]

Card 2/2

3.2430 (1487,2806)

333³ \$/560/61/000/010/001/016 1299/1302

17.2450

AUTHORS:

Yefremov, A. I., Podomoshenskiy, A. L.,

Yefimov, O. N., and Lebedev, A. A.

TITLE:

Study of short-wave radiation of the sun

SOURCE:

Akademiya nauk SSSR. Iskusstvennyye sputniki

Zemli. no. 10. Moscow, 1961, 3-11

TEXT: The apparatus was installed in the 2nd Soview sputnik. Depending on the orientation of the space-ship, the various photon-counter units were switched on and off. The "x ro" (i.e., the reading when the entrance window was covered by an aluminum film 1 mm thick) was basically determined by radiation penetrating the photon-counter unit through the gaps between the entrance window and the discs with filters. Owing to the little sensitivity of the apparatus to hard X-rays, no significant increase in the "zero"-level was observed in the polar regions. The effect

Card (1/4)

\$/560/61/000/010/001/016 D299/D302

of charged-particle flow on the readings was accounted for by or charged-particle flow on the readings was accounted for by means of a special tungsten-plate in front of one of the entrance windows; this effect was found to be negligible. Sample-readings (taken on August 10, 1060) for a photon-counter with a Ref. Study of short-wave... (taken on August 19, 1960) for a photon-counter with a Beo photo-cathode are shown in a figure; another figure shows the readings for a SrF2 photo-cathode. Each figure has 3 parts indicating the readings for various positions of the disc with filters. The area and thickness of the Cu, Be, Al, (CH)_n filters are also indicated. The figures show the variations in filters are also indicated. The ligures snow the variations in A comparison the readings due to the rotation of the space-ship. A comparison the readings due to the rotation of the SiO₂, LiF and CaF₂ of the curves corresponding to the SiO₂, with those for Al, (CH), Be and Cu -filters permitted ascertaining the X-ray level registered. The results of data processing led to the following conclusions: (1) The radiation in the 44 - 110 % range ((CH)_n-filter) was constant to an accuracy of

card 2/4

Study of short-wave...

S/560/61/000/010/001/016

± 8%, corresponding to 1.5 · 10⁷ counts · cm⁻² · sec. -1 · (2) The radiation in the 8 - 21 % range (Al-filter) was constant (6.2 · 10⁴ counts · cm⁻² · sec. -1) except for the time between 15 hr. 54 min. and 15 hr. 54 min., when it increased by a factor of it increased by 63%. (3) In the region below 8 % (Be-filter), from the background radiation of non-solar origin. (4) During (Be-filter) increased elevenfold. (5) In the 1.4 - 3 % range (Cu-filter), only background radiation of non-solar origin was corded. In order to determine the energy flux from the retaintion follows the law of black-body radiation (Planck's Card 3/4)

33303 \$/560/61/000/010/001/016

D299/D302

Study of short-wave ...

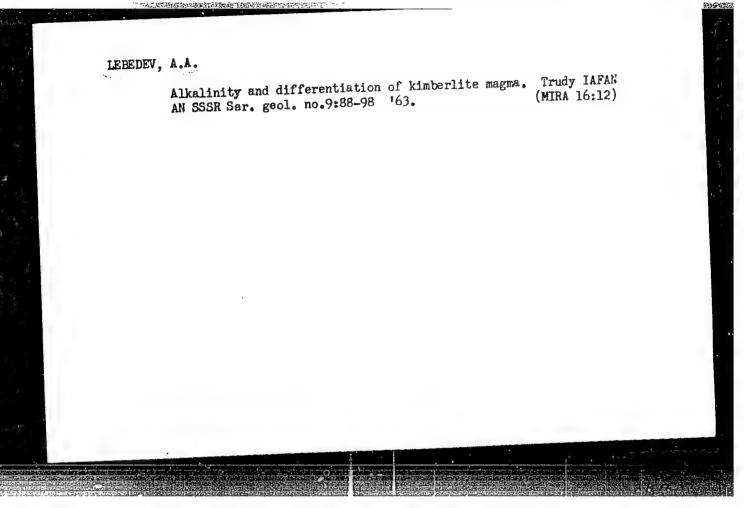
Law). A figure shows the dependence of output signals on sun temperature for a receiver with BeO-photocathode and Cu, Be, Al, and (CH)_n-filters. Another figure shows the spectral distribution of the short-wave radiation. It was found that the radiation fluctuations are constant for wavelengths shorter than 20 Å and in particular for those shorter than 10 Å. The temperature of the quiescent corona was found to be almost double the value obtained by American investigators (Ref. 3: H. Friedman, Trans. Intern Astr. Un., 10, 706, 1960, Cambridge Univ. Press.). The observed flare, too, corresponds to a higher temperature 6.5 · 10 ⁶ °K as compared to (4 ÷ 2) · 10 ⁶ °K). There are 7 finand 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: H. Friedman, Trans. Intern. Astr. Un., 10, 706, 1960, Cambridge Univ. Press.

SUBMITTED: April 10, 1961

Card 4/4

"APPROVED FOR RELEASE: 08/31/2001

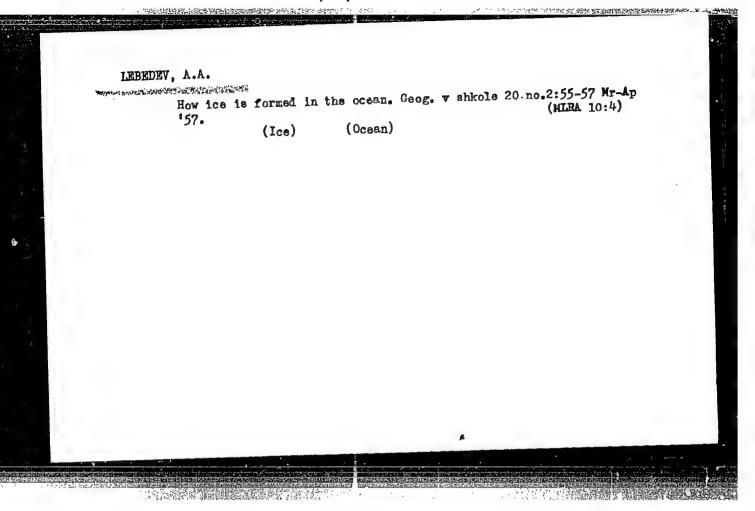
CIA-RDP86-00513R000929010007-3

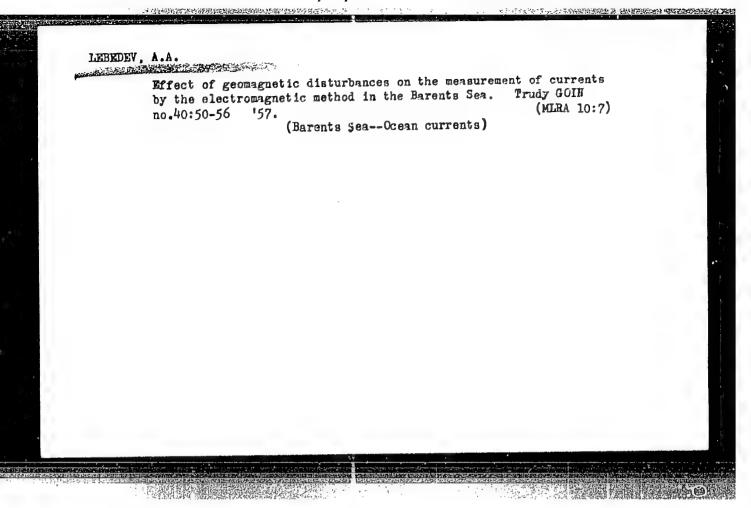


LEBEDEV, A.A.; SMIRNOV, G.I.

Serpentinization in kimberlites. Trudy IAFAN AN SSSR Ser. geol. (MIRA 16:12)

163. (MIRA 16:12)





"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929010007-3

L 31958-66 EWT(1) GW ACC NR: AT6016353 (N)

SOURCE CODE: UR/2634/65/000/087/0032/0050

AUTHOR: Lebedev, A. A.

29

ORG: none

TITLE: Changeability of sea-ice conditions in the northwestern Atlantic

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, no. 87, 1965. L'dy i termika morey (Ice and thormal conditions of seas), 32-50

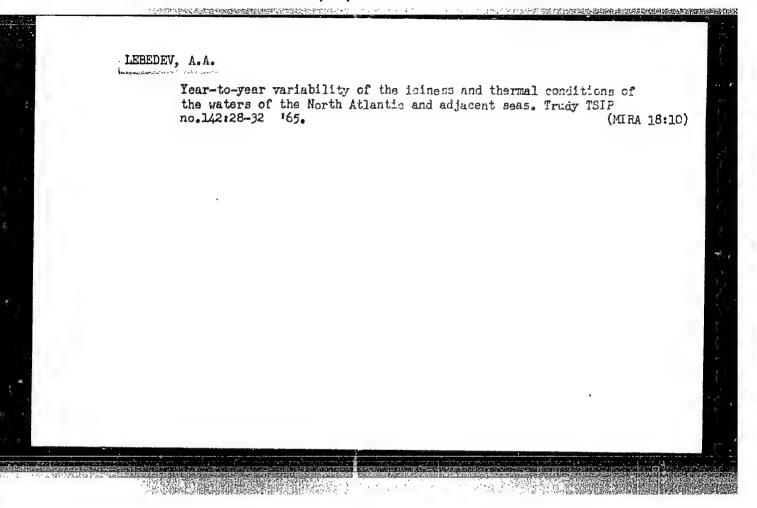
TOPIC TAGS: sea ice, hydrometeorology, solar activity

ABSTRACT: The results are given of investigating seasonal and yearly changeability of sea-ice conditions in the Labrador Sea and Davis Strait. General regularities of such a changeability were established. The dependence of sea-ice conditions on the earlier hydrometeorological processes in these regions was determined. Correlations were obtained permitting the forecasting of general sea-ice conditions and sea-ice boundaries at individual latitudes 2—4 months in advance. Changes in sea-ice conditions over many years in the Davis Strait were examined in connection with the general atmospheric circulation and with solar activity. Orig. art. has: 7 figures and 11 tables.

SUB GODE: 08/ SUBM DATE: none/ ORIG REF: 016/ OTH REF: 013

Card 1/1 2C

UDC: 551.46(261) + 551.326(018)



"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929010007-3

L 40848-66 - EJT(m) - JAJ/DJ

ACC NR: AP6010025

SOURCE CODE: UR/0119/66/000/003/0016/0016

AUTHOR: Lebedev, A. A. (Candidate of technical sciences); Matveyev, V. V. (Candidate of technical sciences)

33

ORG: none

TITLE: The stabilization of liquid pressure in closed containers

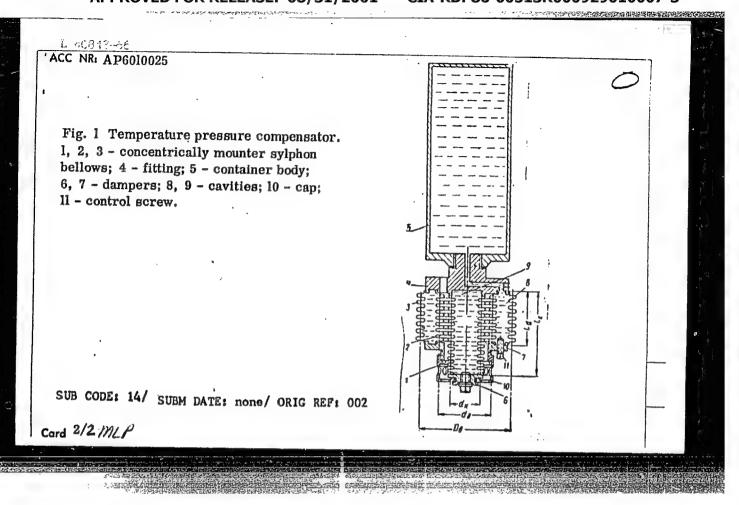
SOURCE: Priborostroyeniye, no. 3, 1965, 16

TOPIC TAGS: fluid pressure, pressure compensator

ABSTRACT: Because of the large expansion coefficient of liquids (as compared with the material of containers) there appear specific difficulties in the design of various kinds of equipment involving liquid components. The existing temperature compensators usually involve hard to get materials and, consequently, the authors developed at the Institute of Problems of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR) a small device, shown in Fig. 1, for the reliable maintainance of a specified pressure of liquids in closed containers during temperature changes. Orig. art. has: 10 formulas and 1 figure.

Card 1/2

UDC: 681.2.088:536.41



"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010007-3 SUBJECT AUTHOR USSR / PHYSICS TITLE LEBEDEV, A.A. STAFEEV, V.I., TUCKEVIC, V.M. EBEDEV, A.A. STAFEEV, V.I., TUCKEVIC, V.M.
Gold Admixture of the Diodes consisting of Germanium with a PERIODICAL Zurn. techn. fis, 26, fasc. 10, 2131-2141 (1956) As gold atoms form two acceptor levels which are deep in the forbidden zone, the concen-As gold atoms form two acceptor levels which are deep in the forbidden zone, the gold atoms and any donor admixture in the germanium. Let it be properties of germanium may depend in a high degree on the ratio of the concensus assumed that N and N denote the concentration of the germanium. Let it be gold atoms and donor assumed that N gold atoms and any donor admixture in the germanium. Let it he gold atoms and donor admixture in the gold atoms and donor atoms respectively. At NAU > ND the germanium has noise-conquestivity (nere carred germanium or the distance of the upper acceptor level of the conductivity depends on the distance of the upper acceptor level of the up dence of the conductivity depends on the distance of the upper acceptor level of the case of the upper acceptor fevel of the case of the upper acceptor level of the germanium then has electronic conductivity. are stopped up at all temperatures, and the germanium then has electronic conductively. (Here called germanium of the III. type), The admixture of gold exer. are stopped up at all temperatures, and the germanium then has electronic conductivity. (Here called germanium of the III. type), The admixture of gold ever. cises hardly any influence at all on the temperature dependence of gold exerof the I. II. and III. types are here describe The diodes produced at all on the temperature dependence of conductivity. and III. and III. and III. types are here described properties of Ge III are not deter-229 The diodes produced from germanium of the I. II. and III. types are here described to the I. II. and III. groups. The properties of Ge III are not determined to the terminal determination. P86-00513R00092901

Znrn. techn.fis, 26, fasc. 10, 2131-2141 (1956) CARD 2 / 2 mined by the admixture of gold but only by the donor admixture, and they offer nothing new. Therefore only the diodes of groups I and II are investigated here. The temperature dependence of direct amperage in the diodes. At first the oscillograms of the diodes of the first group, made at room temperature and at higher temperatures, are given and discussed. After a certain (critical) voltage has been attained, the voltage on the diode declines sharply. If amperage is further increased, voltage remains constant. The discontinuity of the characteristic (breakdown) is most noticeable in the diodes of the II, group. The voltable of the strength of the voltable in the diodes of the II, group. The voltable in the diodes of the II, group. The voltable in the diodes of the II, group. The voltable in the diodes of the II, group. The voltable in the diodes of the II, group. The voltable in the diodes of the II, group. The voltable in the diodes of the II, group. The voltable in the diodes of the II, group. characteristic of the usual diodes. At still lower temperatures breakdown takes place. In the case of the diodes of the II. group the disruptive voltage grows place, in the case of the diodes of the II. group the disruptive voltage grows rapidly within the range of from -160° to -200° C. The probable causes of these phenomena are discussed. The breakdown characteristic, by the way, depends on the intensity of illumination and on the field strength of a magnetic field which may possibly exercise its influence. INSTITUTION: LFTI (= Leningrad Physical-Technical Institute) Leningrad.

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CIA-RDP86-00513R000929010007-3

Malakhov, L. N., Vertaner, V. N.,

507/18-23-5-25/28

AUTHORS:

Lebedev, A. A.

TITLE:

The Use of Shadow-electronoptical Methods in the Investigation

of p - n-Transitions in Germanium (Primeneniye tenevogo

elektronnoopticheskogo metoda k issledovaniyu

germaniyevykh p - n-perekhodov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,

Vol 23, Nr 6, pp 770-772 (USSR)

ABSTRACT:

Vavilov was the first to use this method for investigations of semiconductors (Ref 2), and reference is made in the introduction to the results obtained by the investigation described in p 765 of this issue, where formula (1) was deduced for the displacement. Further, several data are given for the experimental unit: accelerating voltage 50 kv, 200 to 300-fold enlargement, and a resolving power of up to from 0.1 to 0.2 \mu. The investigations were carried out on ground and polished germanium monocrystals, and a scheme of the experimental unit (Fig 1) is shown. The optical axis of the instrument touches the edge of a germanium crystal, the electrons in the crystal move in a direction that is

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CIA-RDP86-00513R000929010007-3

The Use of Shadow-electronoptical Methods in the Investigation of p - n-Transitions in Germanium

SOV/48-23-6-25/28

perpendicular to the optical axis. From the displacement of the net located in the focal plane of the objective, conclusions are drawn as to the voltage distribution on the edge of the crystal, and as positive and negative voltages are applied to the electrodes of the crystal, "zero" of the voltage becomes visible (Fig 2). The dependence of the width of the p - n-transition of Ge on the applied voltage becomes clearly visible. The authors finally thank Academician A. A. Lebedev for his valuable advice and discussions. There are 2 figures and 4 references, 3 of which are Soviet.

Card 2/2

ACCESSION NR: AT3003007 AUTHOR: Lebedev, A. A.; Tuchkevich, V. M. TITLE: Investigation of p-n junctica capacitance as function of temperature and frequency [Report of the All-Union Conference on Semiconductor Devices held in Tashkent from 2 to 7 October 1961] SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, Izd-vo AN UZSSR, 1962, 220-224 TOPIC TAGS: germanium diode capacitance, silicon diode capacitance ABSTRACT: Some theoretical works dealing with the junction capacitance are reviewed, and a source formula for admittance of a p-n junction is selected. Authers' experiments are described with the following semiconductor devices: (1) Authers' experiments are described with the following semiconductor area is n-Ge diodes with a resistivity of 50-60 chm/cm; the alloy junction area is 5-7 sq mm; (2) same, but the resistivity is 30-40 ohm/cm and the area is 5 sq cm; (3) diffusion-type Si rectifiers with a p-n junction area of 3 sq cm; 3 sq cm; (3) diffusion-type Si rectifiers with a p-n junction area of 3 sq cm; source Si had n-type conductance and a resistivity of 30-40 ohm/cm. The capacitances were measured by a bridge method at 20-700 kc. Capacitance vs.	4	L 13061-63	BDS/EWT(1)/EWP(q)/E AT/JD/IJP(C)		•	
TITIE: Investigation of p-n junctica capacitance as function of temperature and frequency [Report of the All-Union Conference on Semiconductor Devices held in Tashkent from 2 to 7 October 1961] SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, Izd-vo AN UZSSR, 1962, 220-224 TOPIC TAGS: germanium diode capacitance, silicon diode capacitance ABSTRACT: Some theoretical works dealing with the junction capacitance are reviewed, and a source formula for admittance of a p-n junction is selected. Authors' experiments are described with the following semiconductor devices: (1) Authors' experiments are described with the following semiconductor area is n-Ge diodes with a resistivity of 50-60 ohm/cm; the alloy junction area is 5-7 sq mm; (2) same, but the resistivity is 30-40 ohm/cm and the area is 5-7 sq mm; (3) diffusion-type Si rectifiers with a p-n junction area of 3 sq cm;					6	•
SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, 12d=vo AN UZSSR, 1962, 220-224 TOPIC TAGS: germanium diode capacitance, silicon diode capacitance ABSTRACT: Some theoretical works dealing with the junction capacitance are reviewed, and a source formula for admittance of a p-n junction is selected. reviewed, and a source formula for admittance of a p-n junction devices: (1) Authors' experiments are described with the following semiconductor devices: (1) n-Ge diodes with a resistivity of 50-60 ohm/cm; the alloy junction area is n-Ge diodes with a resistivity is 30-40 ohm/cm and the area is 5-7 sq rm; (2) same, but the resistivity is 30-40 ohm/cm area of 3 sq cm;		TITIE: Investig frequency [Repor	ation of p-n junctich cape t of the All-Union Conference to 7 October 1961]	ecitance as functi ence on Semiconduc	on of temperature s tor Devices held in	and 1
ABSTRACT: Some theoretical works dealing with the junction capacitance are reviewed, and a source formula for admittance of a p-n junction is selected. Ruthers' experiments are described with the following semiconductor devices: (1) Authers' experiments are described with the following semiconductor devices: (1) Authers' experiments are described with the following semiconductor area is n-Ge diodes with a resistivity of 50-60 ohm/cm; the alloy junction area is 15-7 sq mm; (2) same, but the resistivity is 30-40 ohm/cm and the area is 5-7 sq mm; (3) diffusion-type Si rectifiers with a p-n junction area of 3 sq cm;		SOURCE: Elektro	nno-dy*rochny*ye perekhod 220-224		•	1-40
n-Ge diodes with a resistivity is 30-40 ohm/cm and the area is 5-7 sq mm; (2) same, but the resistivity is 30-40 ohm/cm area of 3 sq cm; 3 diffusion-type Si rectifiers with a p-n junction area of 3 sq cm; 3 diffusion-type Si rectifiers with a p-n junction area of 3 cm;		ABSTRACT: Some reviewed, and a	theoretical works dealing source formula for admitt ments are described with t	with the junction sence of a p-n junche following semi-	ction is selected. conductor devices:	(1)
		n-Ge diodes with 5-7 sq rm; (2)	seme, but the resistivity ffusion-type Si rectifiers	is 30-40 ohm/cm as with a p-n junct	nd the area is ion area of 3 sq cm O ohm/cm. The	•
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frequency curves for various applied voltages are presented, as well as a number of auxiliary curves serving to compute the capacitance. It is inferred that the p-n junction capacitance of Ge and Si (alloy or diffusion) devices depend on both the temperature and the frequency. The capacitance is reliably described by the Tolpy*go and Rashba formula (ZhTF., 25, 1335, 1955). Orig. art. has: 6 figures and 5 formulas.

ASSOCIATION: Akademiya nauk SSSR (Academy of Sciences SSSR); Akademiya nauk Uzbekskoy SSR (Academy of Sciences UzSSR); Tashkentskiy gosudarstvenny*y universitet (Tashkent State University)

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Card 2/2

<u>L 18388-63</u> EWP(q)/EWT(m)/BDS ACCESSION NR: AP3003732 AFFTC JD S/0109/63/008/007/1280/1281

AUTHOR: Galavanov, V. V.; Lebedev, A. A.; Rzayev, M. A.

57

TITLE: Capacitance of alloy p-n junction in InSb

27-27

SOURCE: Radiotekhnika i elektronika, v. 8, no. 7, 1963, 1280-1281

TOPIC TAGS: capacitance, InSb junction

ABSTRACT: Results are reported of an experimental determination of capacitance of a p-n junction obtained by alloying In into n-InSb. Single crystals of InSb with donor-impurity concentrations of 3×10^{14} , 2×10^{15} , and $2 \times 10^{16} \, \mathrm{cm}^3$ were used as a source material. The p-n junction area was $0.02 \, \mathrm{cm}^2$. Thirty samples were measured at the liquid-nitrogen temperature, at 50-1,000 kc. The capacitance was found to depend on the frequency and smoothness of the junction surface. "In conclusion, we consider it our pleasant duty to thank D. N. Nasledov for his interest in this work." Orig. art. has: 2 figures and 1 formula.

Card 1/2

L 18388-63 ACCESSION NR: AP3003732

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR

(Physicotechnical Institute, AN SSSR)

SUBMITTED: 19Oct62

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: GE

NO REF SOV: 000

OTHER: 006

L 60859-65 ENT(1)/ENT(m)/T/ENP(t)/ENP(b)/ENA(h) ACCESSION NR: AP5017667	IJP(c) JD/AT UR/0109/65/010/00 539.293.011.41	7/1306/1309
AUTHOR: Galavanov, V. V.; Ziyakhanov, U.; Lebedev, A. FITLE: Capacitive properties of alloy p-n junctions we counce: Radiotekhnika i elektronika, v. 10, no. 7, 19	with a p-InSb base	18 17 B+1
FOPIC TAGS: p n junction, junction capacitance, diffusion, indium antimonide alloy junction ABSTRACT: The capacitive properties of alloy junction as the base material and an alloy of In and 1% Te were affective areas of $(5-8) \times 10^{-3} \text{ cm}^2$ and majority carrange of 1 x $10^{13}-2 \times 10^{16} \text{ cm}^{-3}$ were tested in the 50 dest results indicate a relationship $1/C^2 \sim U$, where C and U, the applied reverse bias. For $U = 0$, the barriance dependence on the amount of the carrier concent applied to a junction with $N = 7 \times 10^{15} \text{ cm}^{-3}$, the meas exceeded the value of the barrier capacitance. The divises determined as the difference between the two and we have the sum of the carrier capacitance.	ens formed by p-Institute investigated. Justier concentrations is the junction of capacitance exhibition. When forward capacitance of fusion capacitance of the sign of the si	b crystals inctions with (N) in the range. The apacitance ibited a ard bias was onsiderably e Cdiff

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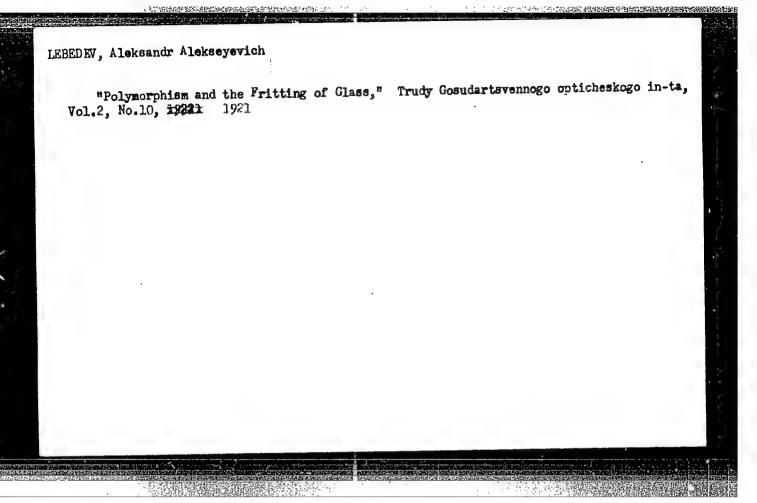
CIA-RDP86-00513R000929010007-3

L 60839-65 ACCESSION NR: AP5017667 magnitude of diffusion capacitance derived with the Shockley equation. From the slope of $C_{diff} = f(1)$, the minority carrier lifetime was estimated to be 4 x 10^{-8} sec for N = 7 x 10^{15} cm⁻³. Upon application of large forward currents, the capacitance at first increases, but after reaching a maximum at a given current value, it degenerates into an inductance, as was previously observed in diodes with n-InSb as the base material. Increased temperature apparently reduces the contact potential and gives rise to increasing capacitance. Orig. art. has: 5 figures. [BD] ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. loffe AN SSSR (Physicotechnical Institute, AN SSSR) SUB CODE: EC ENCL: 00 SUBMITTED: 27Apr64 ATD PRESS: 4063 OTHER: 001 NO REF SOV: 003

KOKUSHKIN, D.P.; FREYDENZON, Ye.Z.; KOMPANIYETS, I.A.; SHMONIN, G.M.; LEBEDEV, A.A.; ZATULOVSKAYA, Ye.Z.; Prinimali uchastiye: DUBROV, N.F.; PASTUKHOV, A.I.; ISAYEV, N.I.; STAROSELETSKIY, M.I.; AKSEL'ROD, L.M.

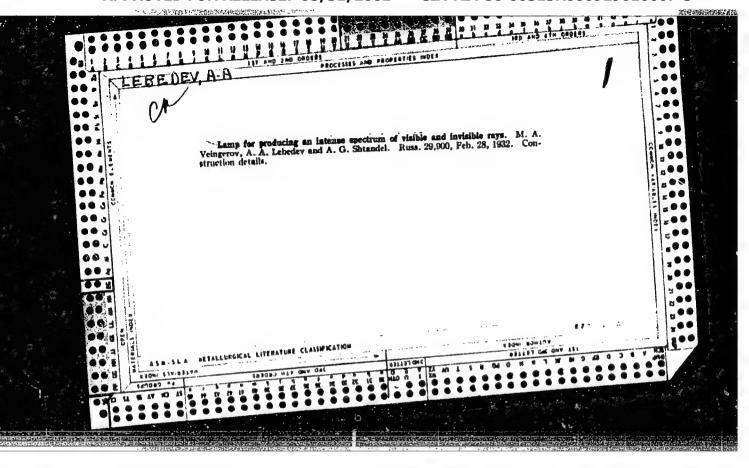
Improving the quality of a faceted ingot by changing the shape of its side surfaces. Stal 25 no.7:610-612 J1 '65. (MIRA 18:7)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov i Nizhne-Tagil'skiy metallurgicheskiy kombinat.



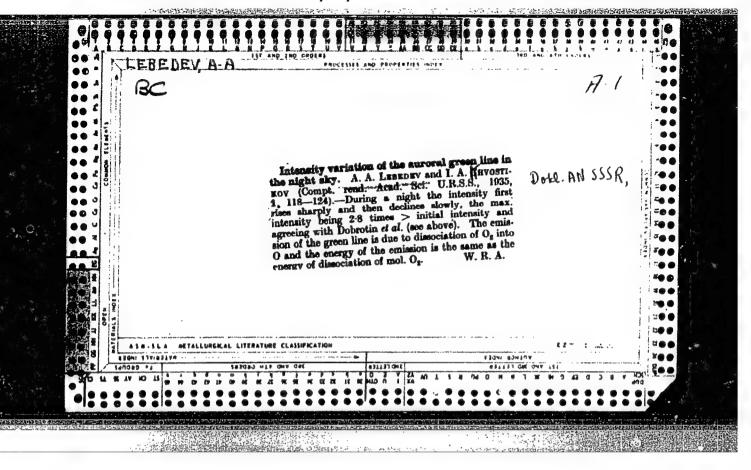
The Polarization Interferometer and Its Use, Trudy Gosudars rennogo optiches-kogo in-ta, 5, No.53, 1931

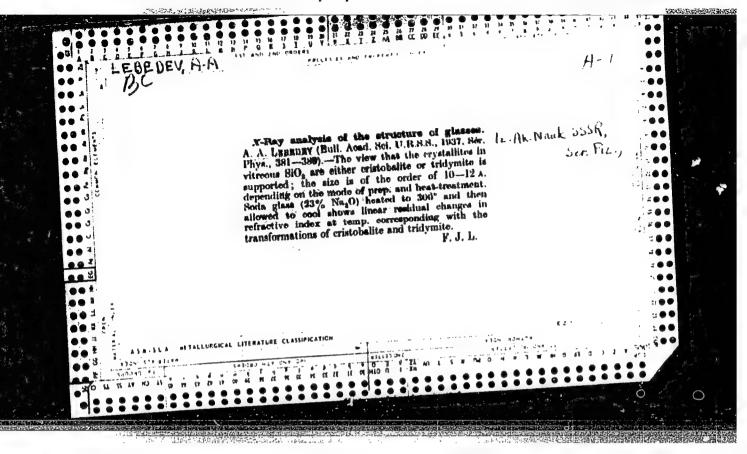
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010007-3"

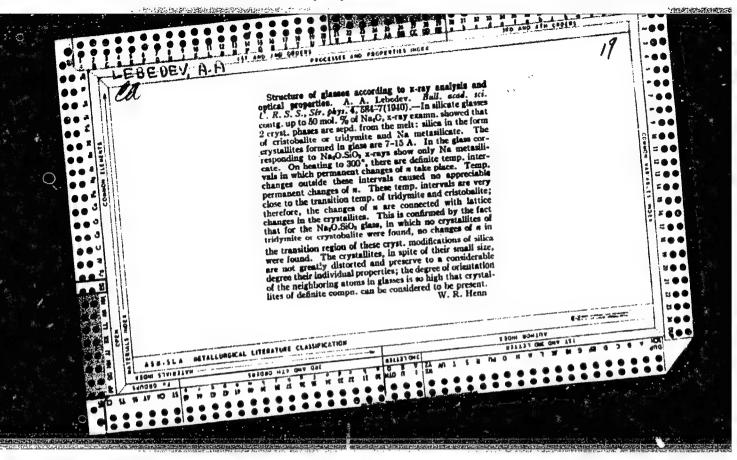


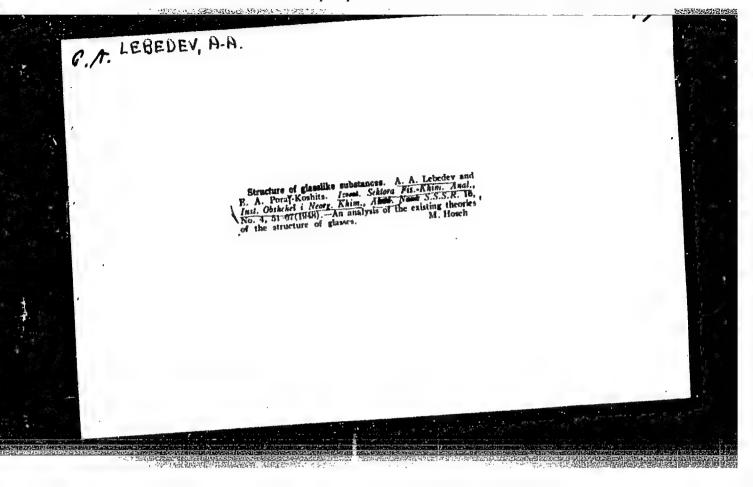
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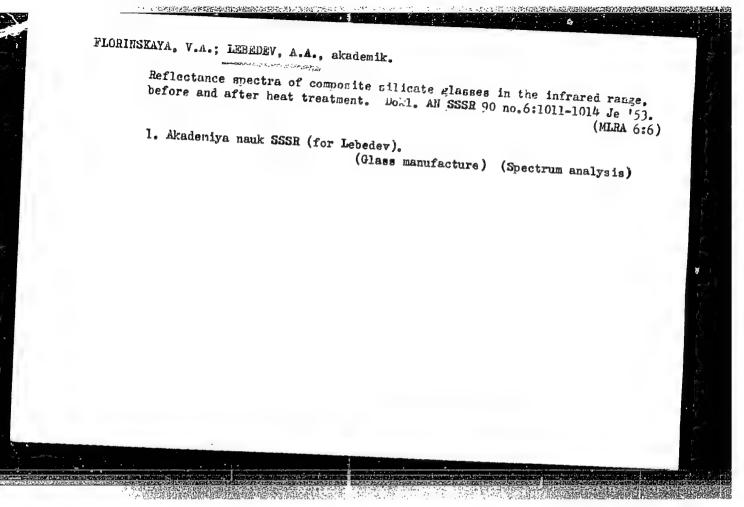


LEBEDEY A.A.

"Diffraction of Electropa" (Diffraktsiya Electronov), Z.G. Pinsker, edited and with a forward by A. A. Lebedev, Academy of Sciences USSR, Moscow/Leningrad, 1949, 356 pages and 13 inclosures, 30 rubles.

This work gives the theoretical basis and experimental technique of electronography applicable to the problems of dispersion of electrons by crystals and molecules; the investigation of crystalline lattices; the processes of oxidation of metals and polished surfaces; amorphous substances and polymers. It is an exhaustive treatment, including the material written in the 21 years since the discovery of the phenomenon of the diffraction of electrons.

SO: <u>Uspekh Khimii</u>, Vol. 18, #6, 1949; Vol. 19, #1 1950 (W-10083)



YASTREBOV, V.A.; LEBEDEV, A.A., akademik.

Law of extinction of luminescence of solid organic substances. Dokl. AN SSSR 90 no.6:1015-1018 Je '53. (MLRA 6:6)

1. Fizicheskiy institut im. P.N.Lebedeva Akademii nauk SSSR (for Yastrebov). 2. Akademiya nauk SSSR (for Lebedev).

(Luminescence) (Solids)

IVANENKO, D.D.; KOLESNIKOV, N.N.; LEBEDEV, A.A., akademik.

Packing effect in the isotopic reaction of hydrogen and deuterium. Dokl.
AM SSSR 91 no.1:47-50 J1 '53. (MLRA 6:6)

1. Akademiya nauk SSSR (for Lebedev). 2. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Hydrogen--Isotopes)

FLORINSKAYA, V.A.; PECHENKINA, R.S.; LEBEDEV, A.A., akademik.

Diffraction and absorption spectra of potassium silicate glasses in the infrared band. Dokl. AN SSSR 91 no.1:59-62 Jl '53. (MLRA 6:6)

1. Akademiya nauk SSSR (for Lebedev). (Glass) (Spectrum analysis)

LEBEDEV, A.A., akademik; TUNITSKAYA, V.F.

On the origin of separated bands in the phosphorescence of CaSBi-phosphori. Dokl.AH SSSR 91 no.3:507-510 Jl 153. (MLRA 6:7)

1. Fizicheskiy institut imeni P.N.Lebedeva Akademii nauk SSSR (for Tunitskaya). 2. Akademiya nauk SSSR (for Lebedev). (Phosphorescence) (Spectrum analysis)

KAGAN, Yu.M.: PEREL', V.I.: LEBEDEV, A.A., akademik.

On the theory of ion beams collected by a probe at low pressures. Dok! AN SSSR 91 no.6:1321-132h Ag '53. (MLAa 6:8)

1. akademiya nauk SSSR (for Lebedev). 2. Karelo-Finskiy gosudarstvennyy universitet. (Ions)

5. 10.00 (1.5% alternative) (1.

VUKS, M.F.; YELFIMOV, V.I.; LEBEDEV, A.A., akademik.

Values of the optic anisotrophy of molecules of benzene and carbon-bisulfide determined by light dispersion in solutions. Dokl.AN SSSR 92 no.1:29-32 S '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Lebedev). 2. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Vuks and Yelfimov).

(Benzene) (Carbon disulphide)

MALTSHEV, G.M.; FEDOROV, V.L.; LEBEDEV, A.A., akademik.

Use of narrow-band amplifiers for oscillographic investigation of the functions of electron distribution on the basis of electric discharge velocity. Dokl.AM SSSR 92 no.2:269-271 S '53.

1. Akademiya nauk SSSR (for Lebedev). 2. Leningradskiy gosudarstvennyy universitet im, A.A. Zhdanova (for Malyshev and Fedorov).

(Electric discharges through gases)

NARBUTT, K.I.; LEBEDEV, A.A., akademik.

K-ray absorption spectra of zinc while being chemically combined in the molecules of ZnGl₂, ZnBr₂ and ZnS. Dokl.4N SSSR 92 no.2:273-275 S '53.

(MLRA 6:9)

1. Akademiya nazk SSSR (for Lebedev). 2. Institut geologicheskikh nauk Akademii nauk SSSR (for Narbutt). (Zinc) (Absorption spectra)

SHUKHTIN, A.M.; LEBEDEV, A.A., akademik.

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Determination of vapor density beyond the anode and cathode in discharge tubes. Dokl.AN SSSR 92 no.2:289-291 S '53. (MLRA 6:9)

1. Akademiya nauk SSSR (for Lebedev). 2. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova (for Shukhtin).

(Electric discharges through gases)

VANYUKOV, M.P.; KHAZOV, L.D.; LEBEDEV, A.A., akademik.

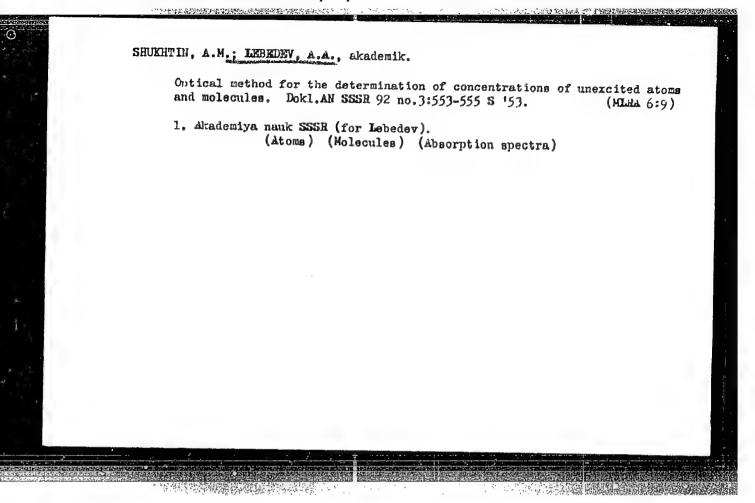
Photoelectric method for the registration of time modifications of spectra of light flashes. Dokl.AN SSSR 92 no.3:523-524 S *53. (MLRa 6:9)

1. Akademiya mank SSSR (for Lebedev). (Spectrum analysis) (Photoelectricity)

GALKIN, L.N.; KOROLEY, N.V.; LEBEDEY, A.A., akademik.

Petroleum in escence of PoS in the infrared spectral band. Dokl.AN SSSH 92 no.3:529-530 S '53. (MLRA 6:9)

1. Akademiya nauk SSSR (for Lebedey). (Spectrum, Infra-red) (Luminescence) (Lead sulfide)



BOROVSKIY, I.B.; BEZIRGANYAN, P.A.; LEBEDEV, A.A., akademik.

Diffraction of X-rays by curved crystals; integral intensity of reflection for the "path" method. Dokl.AN SSSR 92 no.6:1129-1132 0 153.

(MIRA 6:10)

1. Akademiya nauk SSSR (for Lebedev). 2. Institut metallurgii im. A.A. Baykova Akademii nauk SSSR (for Borovskiy and Bezirganyan).

(Crystallography, Mathematical) (X-rays-Diffraction)

NARBUTT, K.I.; LEBELLY, A.A., akademik.

Investigation of X-ray absorption spectra of zinc and brosine as components of ZnBr₂ molecules. Dokl.AN SSSR 93 no.1:21-24 N '53. (MLRA 6:10)

1. Akademiya nauk SSSR (for Lebedev). 2. Institut geologicheskikh nauk Akademii nauk SSSR (for Narbutt). (Zinc) (Bromine)

(Absorption spectra)

CHULANOVSKIY, V.M.; LEBEDEV, A.A., akademik.

Infrared adsorption spectra of the 0 - H group in water and certain other solutions. Dokl.AN SSSR 93 no.1:25-28 N 153. (MLRA 6:10)

1. Akademiya nauk SSSR (for Lebedev). 2. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Chulanovskiy).
(Absorption spectra) (Oxygen) (Hydrogen)

IEBEDEV, A.A., akademik, redaktor; MILYUTIN, V.I., redaktor; TUMARKINA,

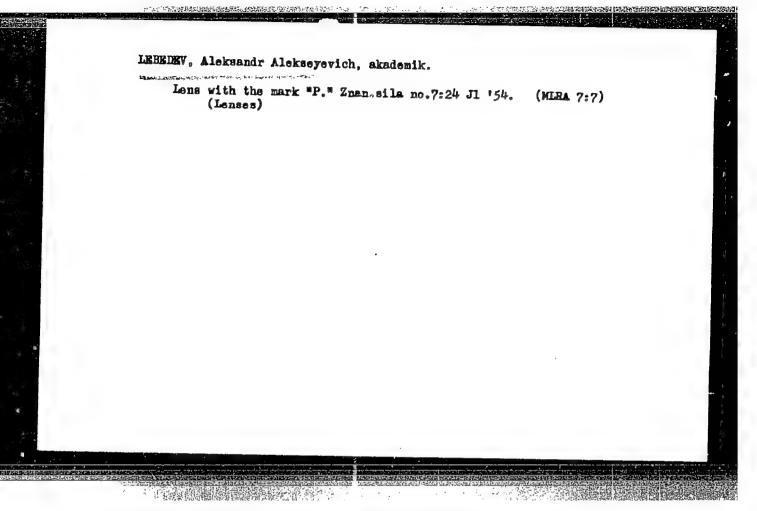
"R.A." tekhnicheskiy redaktor

[Electron microscopy] Elektronnaia mikroskopiia. Pod red. A.A.

Lebedeva. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1954. 636 p.

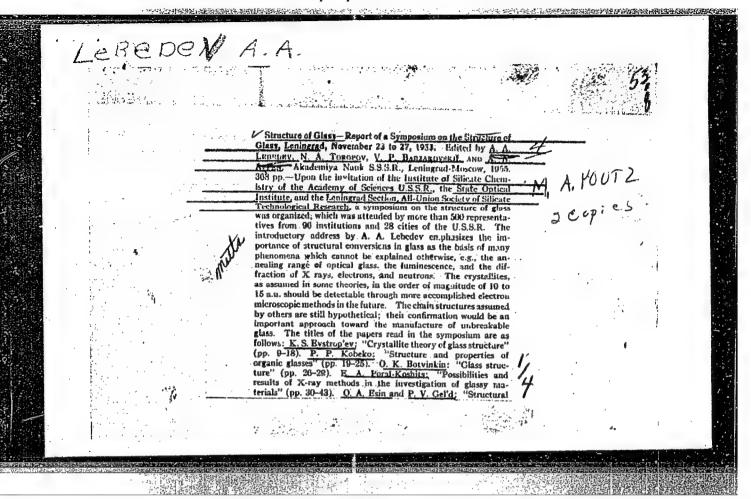
(Electron microscope)

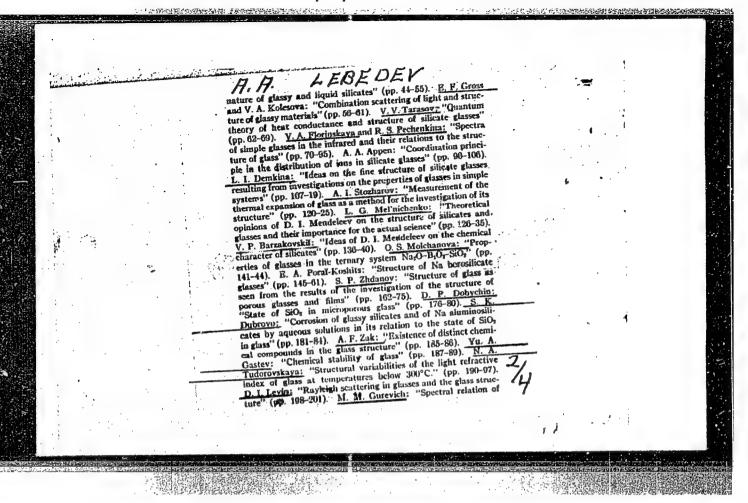
(MIRA 7:10)



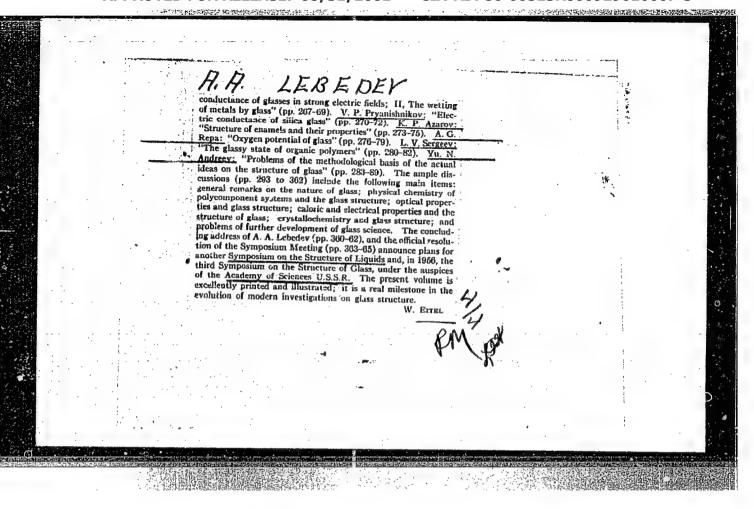
KEL'MAN, V.M.; LEBEDEV, A.A., akademik, redaktor; SMIRNOVA, A.V.
tekhnicheskiy Tedaktor.

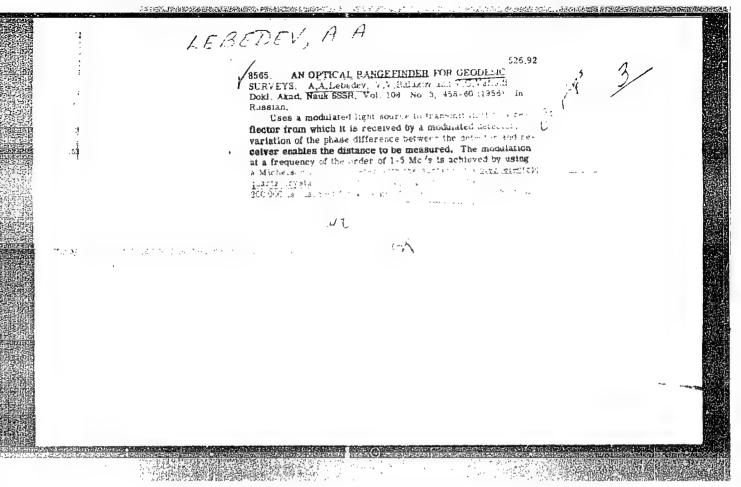
[Electron optics] Elektronnaia optika. Moskva, Izd-vo Akademii
nauk SSSR, 1955. 163 p.
(Electron optics)





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•			Na borosilicate glass	es" (pp. 202-206).	A. N:			•
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		(pp. 216-18). \(\)	1. Shelyhosana	and!! (np. 219-23).	L. A.			
***		microscope to the	ie investigation of Ba	lectropographic St	udy of			
. 1		industrial glasse	s' (pp. 224-20). A	maii /nn 227-29).	N. V.			• •
1	•	properties of hi	This aluminous kins	hornto glasges" (D	p. 230-	~		
		33) G.A. Kol	wkov: "Selective vola Or-SiO ₃ , a method fo	tility of component	s of the			
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		tion in glasses at	id silicute systems (i	ability in hinary	silicate			
		melts" (pp. 248	5-50). <u>V. 1. Stavya</u>	and lig	uid ma			
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	9. 91	V. A. Ioffei	"Blectric conductance	e of simple borate	systems 7	<i>†</i>		
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Lebeder A.A.

AUTHORS:

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Mathematical Sciences, Lebedev, A. A., Academician.

TITLE:

Electron Microscopy in the Soviet Union (Elektronna, a mikroskopiya

v Sovetskom Soluze)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 1c, pp 1214-1219 (USSR)

ABSTRACT:

Both the development and the latest achievements of electron microscopy are described in the introduction by drawing special attention to the successes achieved in England (Menter) where the crystalline lattice with intercrystalline distances was immediately obscrved for the first time. In the chapter: The claborate studies for manufacturing a Soviet electron microscope it is stated that the first electron microscopes constructed by Lebedev were produced in 1945 and that they were later (1949) to industrial purposesby M. Ivanov under the trade mark " M-3". The further developed instruments " M-3M" which, among others, were also equipped with electronographic accessories for electronic graph recording in the transitory and reflected rays and which allow an enlargement up to the 40.000 fold, were produced for the first time in 1953. Ultimate preparations are made at present for the production of the latest Soviet electron microscope "YM5-100" which should be equal" to the

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best foreign models. Its technical data will be: 20A at an accelerating voltage of 50, 75 and 100 KW, constructed by V. Polivanov, P. Stoyanov, and G. Mikhaylovskiy. The latest type of the electron miroscope " H-5" at 25 A and continously increasing enlargement of 1000 to 50000 times at 40, 50, 60 KW, is also already being produced; it will make it possible to achieve a microdiphraction in transitory electron rays, to carry out an electronic graph, and to make sterescopic photographs. Yanchevskiy, K. Milyatin, V. and Fetisov, D., after man/ years of research, also completed other plans for further electron-microscopes among which are " CM-60" and "M CM-40" of 60 and 40 KW at δ_1 - 50 A, and δ_2 =60 A. Moreover, an emission electron microscope" M-75" with δ =500 A and 75 KW, an emission electron microscope" as well as a series of other microscopes were claborated for special purposes (electron emission) by Rozebfel'd A., P. Zajtsev, and Yu. Zolotarenko. In the chapter: Electron-microscopical elaborate investigations it is stated that there are actually more than 400 electron microscopes in operation in the USSR, which is much fewer than in the U.S.A. where approximately 500 of these apparatus exist. Variations of elaborate investigations on eathodes, their activation, phenomena of migration and adsorption are described and mentioned in this chapter. Eventually the application of electron pro-

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jectors which allow a 2 million-fold enlargement (special projector) is practised. Electron microscopy is applied in the USSR in the fields of metallography, geology, biology, bacticriology, and medicine. (Enamples are given).

AVAILABLE:

Library of Congress

- 1. Electron microscopy-USSR 2. Electron microscopy-Development
- 3. Electron microscopy-Application

Card 3/3

GGV-25-58-7-10/56

AUTHOR:

Lebedev, A.A., Linnik, V.P. and Terenin, A.A., Academicians

TITLE:

None Given

PERIODICAL:

Nauka i zhizn', 1958, Nr 7, p 18 (USSR)

ABSTRACT:

The above-named academicians express their judgement regarding the creation of Soviet diffraction gratings. They stress the importance of such gratings in carrying out scientific research and industrial tasks. It is impossible to overrate the importance of Soviet production of diffraction gratings, because it establishes favorable conditions for considerable technical progress in spectroscopical research and optical

device construction.

1. Diffraction gratings--USSR

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LEBEDEU, H.A.

PHASE I BOOK EXPLOITATION

SOV/5035

Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 3d, Leningrad, 1959.

Stekloobraznoye sostoyaniye; trudy Tret'yego vsesoyuznogo soveshchaniya Leningrad, 16-20 noyabrya 1959 (Vitreous State; Transactions of the Third All-Union Conference on the Vitreous State, Held in Leningrad on November 16-20, 1959) Moscow, Izd-vo AN SSSR, 1960. 534 p. Errata slip inserted. 3,200 copies printed. (Series: Its: Trudy)

Sponsoring Agencies: Institut khimii silikatov Akademii nauk SSSR. Vsesoyuznoye khimicheskoye obshchestvo imeni D.I. Mendeleyeva and Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I. Vavilova.

Editorial Board: A.I. Avgustinik, V.P. Barzakovskiy, M.A. Bezborodov, O.K. Botvinkin, V.V.Vargin, A.G. Vlasov, K.S. Yevstrop'yev, A.A. Lebedev, M.A. Matveyev, V.S. Molchanov, R.L. Myuller, Ye.A. Poray-Koshits, Chairman, N.A. Toropov, V.A. Florinskaya, A.K. Yakhkind; Ed. of Publishing House: I.V. Suvorov; Tech. Ed.: V.T. Bochever.

PURPOSE: This book is intended for researchers in the science and technology of glasses.

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Vitreous State (Cont.)

SOV /5035

COVERAGE: The book contains the reports and discussions of the Third All-Union Conference on the Vitreous State, held in Leningrad on November 16-19, 1959. They deal with the methods and results of studying the structure of glasses, the relation between the structure and properties of glasses, the nature of the chemical bond and glass structure, and the crystallochemistry of glass. Fused silica, mechanism of vitrification, optical properties and glass structure, and the electrical properties of glasses are also discussed. A number of the reports deal with the dependence of glass properties on composition, the tinting of glasses and radiation effects, and mechanical, technical, and chemical properties of glasses. Other papers treat glass semiconductors and soda borosilicate glasses. The Conference was attended by more than 300 delegates from Soviet and East German scientific organizations. Among the participants in the discussions were N.V. Solomin, Ye. V. Kuvshinskiy, Yu.A. Gastev, V.P. Pryanishnikov, Yu. Ya. Gotlib, O.P. Mchedlov-Petrosyan, G.P. Mikhaylov, S.M. Petrov, A.N. Lazarev, D.I. Levin, A.V. Shatilov, N.T. Ploshchinskiy, A.Ya. Kuznetsov, E.V. Degtyareva, G.V. Byurganovskaya, A.A. Kalenov, M.M. Skornyakov, P.Ya. Bokin, E.K. Keller, Ya.A. Kuznetsov, V.P. Pozdnev, R.S. Shevelevich, Z.G. Pinsker, and O.S. Molchanova. The final session of the Conference was addressed by Professor I.I. Kitaygorodskiy, Honored Scientist and Engineer, Doctor of Technical Sciences. The following

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